

FORM PTO-1390 (Modified)
(REV 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

RBL0087

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

10/089504

INTERNATIONAL APPLICATION NO
PCT/DE00/03421INTERNATIONAL FILING DATE
28 September 2000PRIORITY DATE CLAIMED
28 September 1999

TITLE OF INVENTION

METHOD FOR CHARGING INTERNET SERVICES VIA A MOBILE TELEPHONE

APPLICANT(S) FOR DO/EO/US

BRUNE, Peter et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☒ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 20 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1 821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☒ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

Check No. 103438

JC13 Rec'd PCT/PTC 28 MAR 2002

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|--|--|---|--|--|--|
| U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.53) 10/089504 | | INTERNATIONAL APPLICATION NO PCT/DE00/03421 | | ATTORNEY'S DOCKET NUMBER RBL0087 | |
| 24. The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) : <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO</div><div>\$1040.00</div></div> <div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO</div><div>\$890.00</div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO</div><div>\$740.00</div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)</div><div>\$710.00</div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)</div><div>\$100.00</div></div> <div style="text-align: right; margin-top: 5px;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div> | | | | | |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|-------------------------------------|---|-----------|
| In re Application of |) | |
| Peter Brune et al. |) | Group: |
| Serial No. |) | |
| Filed: |) | Examiner: |
| Title: METHOD FOR CHARGING INTERNET |) | |
| SERVICES VIA A MOBILE TELEPHONE |) | |

PRELIMINARY AMENDMENT DELETING
MULTIPLE DEPENDENT CLAIMS

Assistant Commissioner of Patents
 Washington, DC 20231

Sir:

Prior to calculating the filing fee, please enter the following amendments to the application.

IN THE CLAIMS

In claim 3, line 1, delete "any of the claims 1 or 2" and substitute therefor --claim 1--.

In claim 4, line 1, delete "any of the claims 1 to 3" and substitute therefor --claim 1--.

In claim 5, line 1, delete "any of the claims 1 to 4, characterized in that no additional encoding methods are required" and substitute therefor --claim 1, characterized in that the mobile telephone network (2) authenticates the customer--.

Please delete claim 6.

Please add the following new claims:

--8. Method as defined by claim 2, characterized in that the customer can secure all payment transactions by means of a payment PIN.

9. Method as defined by claim 2, characterized in that sensitive data remain safe in the mobile telephone network (2) and are not transmitted via the Internet (3).

10. Method as defined by claim 3, characterized in that sensitive data remain safe in the mobile telephone network (2) and are not transmitted via the Internet (3).

11. Method as defined by claim 2, characterized in that the mobile telephone network (2) authenticates the customer.

12. Method as defined by claim 3, characterized in that the mobile telephone network (2) authenticates the customer.

[illegible]

Michael A

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-2-

**VERSION WITH MARKINGS TO SHOW CHANGES MADE
IN THE CLAIMS**

1. Method for using and charging Internet services via a mobile telephone, characterized in that
a payment gateway (5) is established, which is accessible by a mobile telephone-Internet user via a mobile telephone terminal (1) and by a provider via a provider server (4), where customer data of the user can be held centrally in a database (6) of the payment gateway (5), a micropayment account (7) is opened at a bank (9), where the payment gateway (5) and the micropayment account (7) are continuously synchronized by means of matching the databases,
a certain amount is reserved in the micropayment account (7) via the payment gateway (5) and authorized by the user to the provider,
the provider debits amounts against the amount transferred to him,
upon conclusion of the process the actual charge(s) is/are transmitted by the provider to the payment gateway (5), and
the payment gateway (5) allocates the actual charges to the reservations and debits the amounts to the micropayment account (7), credits the provider and cancels the respective reservations.
2. Method as defined by claim 1, characterized in that no electronic money purse data and no customer data are held in the terminal (1).
3. Method as defined by [any of the claims 1 or 2] claim 1, characterized in that the customer can secure all payment transactions by means of a payment PIN.
4. Method as defined by [any of the claims 1 to 3] claim 1, characterized in that sensitive data remain safe in the mobile telephone network (2) and are not transmitted via the Internet (3).
5. Method as defined by [any of the claims 1 to 4, characterized in that no additional encoding methods are required] claim 1, characterized in that the mobile telephone network (2) authenticates the customer.
6. [Method as defined by any of the claims 1 to 5, characterized in that no additional authentication method is required, because the mobile telephone network (2) authenticates the customer.]
7. Method for charging Internet services via a mobile telephone, characterized by coupling standard dealer software with standard (Internet) payment systems and Internet-enabled standard mobile telephone terminals (1).

8. Method as defined by claim 2, characterized in that the customer can secure all payment transactions by means of a payment PIN.

9. Method as defined by claim 2, characterized in that sensitive data remain safe in the mobile telephone network (2) and are not transmitted via the Internet (3).

10. Method as defined by claim 3, characterized in that sensitive data remain safe in the mobile telephone network (2) and are not transmitted via the Internet (3).

11. Method as defined by claim 2, characterized in that the mobile telephone network (2) authenticates the customer.

12. Method as defined by claim 3, characterized in that the mobile telephone network (2) authenticates the customer.

13. Method as defined by claim 4, characterized in that the mobile telephone network (2) authenticates the customer.

[illegible]

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10. Method as defined by claim 3, characterized in that sensitive data remain safe in the mobile telephone network (2) and are not transmitted via the Internet (3).

11. Method as defined by claim 2, characterized in that the mobile telephone network (2) authenticates the customer.

12. Method as defined by claim 3, characterized in that the mobile telephone network (2) authenticates the customer.

13. Method as defined by claim 4, characterized in that the mobile telephone network (2) authenticates the customer.--

METHOD FOR USING AND CHARGING INTERNET SERVICES VIA A MOBILE TELEPHONE

The invention relates to a method for using and charging Internet services via a mobile telephone.

Methods for charging Internet services via an Internet terminal (for example a personal computer) are known from prior art. According to methods previously known in the Internet the customer data are held in or loaded to the Internet terminal or by the dealer, but this is not practical when mobile telephone terminals are used as an Internet terminal.

EP-A-0 917 327 discloses a method for charging Internet services where the charges are settled centrally by the Internet service provider. The service provider has a special payment system that supports various payment methods and electronic monetary values. The payment system receives the requests for payment from a dealer to a user. When the payment request has been released by the user the user's account or telephone bill is debited with the respective amount by the payment system and the amount is transmitted to the dealer in the form of electronic monetary values.

WO-A-99 33034 specifies a method for controlling financial transactions via a mobile communication system where a user can release and process payment transactions, for example, to any dealer terminal (points of sale) via his mobile telephone. The amount to be paid is debited to the user's account and credited to the dealer, for example.

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1a

Therefore, the invention is based on the following problem:

To provide a method with which especially Internet services can be charged quickly and safely via a mobile telephone.

The problem is solved by the features of the independent patent claims.

A mobile telephone customer pays a small individual fee for certain contents (information, database searches, travel schedules, games, etc.) when surfing the Internet using a WAP-enabled terminal (wireless application protocol), for example. According to the invention, said amount can be settled efficiently and reliably via the mobile telephone network.

Advantages compared to the prior art.

According to earlier micropayment methods known in the Internet the micropayment account is opened at the bank of the customer and made available to the customer in the form of an electronic money purse in the personal computer. This is not feasible for mobile telephones having limited capacity.

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[0012] Five parties are involved in the charging process: the customer, the provider, the payment gateway, the micropayment bank and the bank system.

[0013] The customer has an Internet-enabled (WAP-enabled) mobile telephone terminal 1 and has access to the Internet 3 via the mobile telephone network 2.

[0014] An interface is added by the provider to his standard Internet server software available in a provider server 4 so as to create a payment gateway 5. The content of the offers (information, games, database searches, etc.) can be called up in a format that is adapted to the mobile telephone terminal 1.

[0015] The MSISDN of the mobile telephone user, the account number of a micropayment account 7 of the customer and his current credit balance are the customer data held by the payment gateway 5 in a payment database 6. The payment gateway is able to find the MSISDN pertaining to a temporary IP address via an inquiry in a MSISDN-IP database 8.

[0016] The micropayment account 7 is maintained as a sub-account of an actual bank account at a bank. The payment gateway 5 and the micropayment account 7 are continuously synchronized by matching the databases. The micropayment account 7 can be prepaid or postpaid. The customer is able to access the current account balance and the current bookkeeping entries in the account 7 at any time via the Internet 3. Transfers from the micropayment account 7 to the provider accounts at other banks 9 are made collectively over a period of time (day, week, month, for example) via the bank system 10.

[0017] Description of the process based on Figs. 1 and 2. When a mobile telephone-Internet user surfs a contractual server of the mobile telephone network operator the provider recognizes the operator based on the user's IP address range.

[0018] While surfing, the mobile telephone-Internet user receives a message at a certain place that the content is fee-based. The provider determines whether the fee is charged per time unit or per click. When the user selects said content he will be asked to authorize the payment for contents up to a maximum amount. Said request sent by the provider includes the transaction data (transaction ID, amount, provider ID) and a link to the payment gateway 5. The provider sends the same data, expanded by the temporary IP address of the mobile telephone-Internet user to the payment gateway 3. When the user clicks on OK, the transaction data is also transmitted from his terminal 1 to the payment gateway 5. The customer can secure such action with a payment PIN.

[0019] The payment gateway 5 synchronizes the two messages and verifies that they concur. The user's IP address, the transaction ID, the amount and the provider ID have to be identical. The payment gateway 5 determines the MSISDN of the mobile telephone-Internet user via the user's IP address and with the MSISDN it searches for the pertaining customer data filed in the payment database 6. The payment gateway 5 now attempts to reserve the requested amount in the micropayment account.

[0020] In case of prepayment the credit balance can be verified, in case of post-payment the credit limit can be verified. A maximum amount per time period (for example DEM 100/month) defined by the customer can also be verified.

[0021] If the result of the verification is positive the provider receives authorization for the requested amount and can apply said amount. As long as the mobile telephone-Internet user remains in the server 4 of the provider he will be able to use fee-based contents without further payment authorization. The provider debits the small amounts against the amount transferred to him. When it is used up the provider can initiate another authorization. The process is not concluded until the user fails to use the server of the provider over a certain time period. The charge(s), including transaction ID, amount, provider ID and the IP address of the user are transmitted to the payment gateway. The provider can display the current status of the charges on every page he transmits to the customer.

[0022] The payment gateway 5 allocates the actual charges to the reservations and transfers the amounts from the micropayment account 7 to the provider. The respective reservations are cancelled. The actual payment flow to the provider's receiving account can take place collectively at a later time. The reservations are also cancelled by the payment gateway 5 when no charge has been received from the provider with the respective transaction ID within a defined time period.

[0023] The customer opens his micropayment account 7 at the micropayment bank of the mobile telephone network operator. The account is generally prepaid, unless the customer has the creditworthiness required by the mobile telephone network operator. The customer can make deposits to his micropayment account and check the bookkeeping entries at any time via the Internet.

[0024] When the requirements for security are low it is possible to establish asymmetrical authorization requests to the payment gateway 5 so as to simplify the

WO 01/24122

PCT/DE00/03421

method, i.e. only the customer sends a message or only the provider sends a message to the payment gateway to initiate the reservation transaction. In these cases, the synchronization is omitted.

6. Method as defined by any of the claims 1 to 5, characterized in that no additional authentication method is required, because the mobile telephone network (2) authenticates the customer.

7. Method for charging Internet services via a mobile telephone, characterized by coupling standard dealer software with standard (Internet) payment systems and Internet-enabled standard mobile telephone terminals (1).

REVISED PAGE

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG(19) Weltorganisation für geistiges Eigentum
Internationales Büro(43) Internationales Veröffentlichungsdatum
5. April 2001 (05.04.2001)

PCT

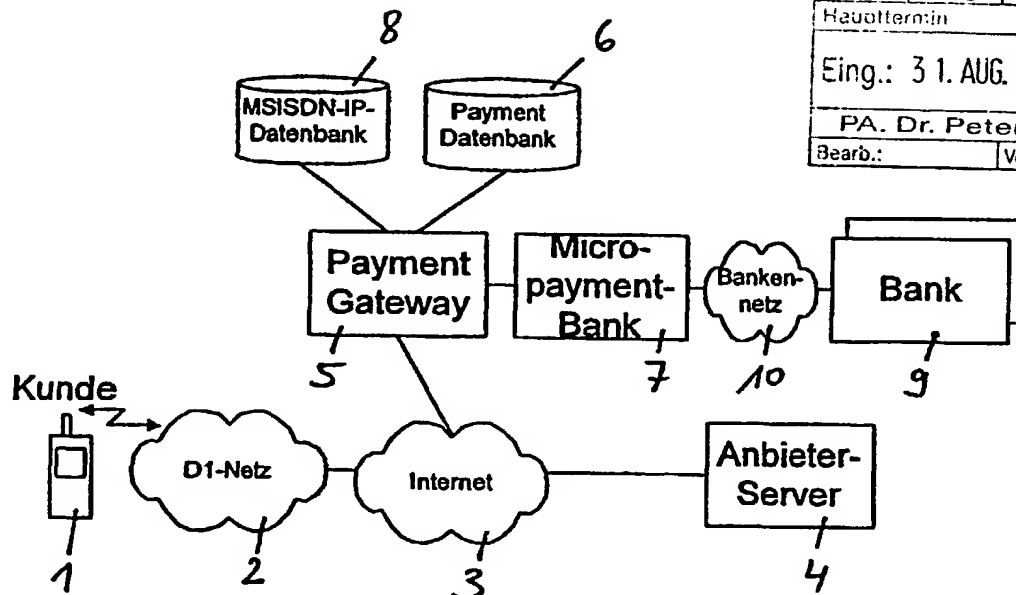
T99038 PCT
(10) Internationale Veröffentlichungsnummer
WO 01/24122 A1

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- (21) Internationales Aktenzeichen: PCT/DE00/03421
- (22) Internationales Anmeldedatum:
28. September 2000 (28.09.2000)
- (25) Einreichungssprache: Deutsch
- (26) Veröffentlichungssprache: Deutsch
- (30) Angaben zur Priorität:
199 46 537.1 28. September 1999 (28.09.1999) DE
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- (81) Bestimmungsstaaten (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

[Fortsetzung auf der nächsten Seite]

(54) Title: METHOD FOR CHARGING INTERNET SERVICES VIA A MOBILE TELEPHONE

(54) Bezeichnung: VERFAHREN ZUR ABRECHNUNG VON INTERNET-DIENSTLEISTUNGEN ÜBER MOBILFUNK



| | |
|------------------------|------------|
| Vorlage | Ablage |
| Hautotternin | |
| Eing.: 31. AUG. 2001 | |
| PA. Dr. Peter Riebling | |
| Bearb.: | Vorgelegt. |

(57) Abstract: The invention relates to a method for charging internet services via a mobile telephone. A mobile telephone customer pays a small individual fee for various types of content (information, data base searches, travel timetables, games) when surfing on the Internet using a WAP-enabled terminal for example. Said amount can be settled via the mobile telephone network in an efficient and reliable manner. The customer data required for a payment transaction is held in a centralized manner in a data base of a payment gateway. A credit account can be authorized by a customer, whereby the provider can charge the amount to be settled thereto.

[Fortsetzung auf der nächsten Seite]

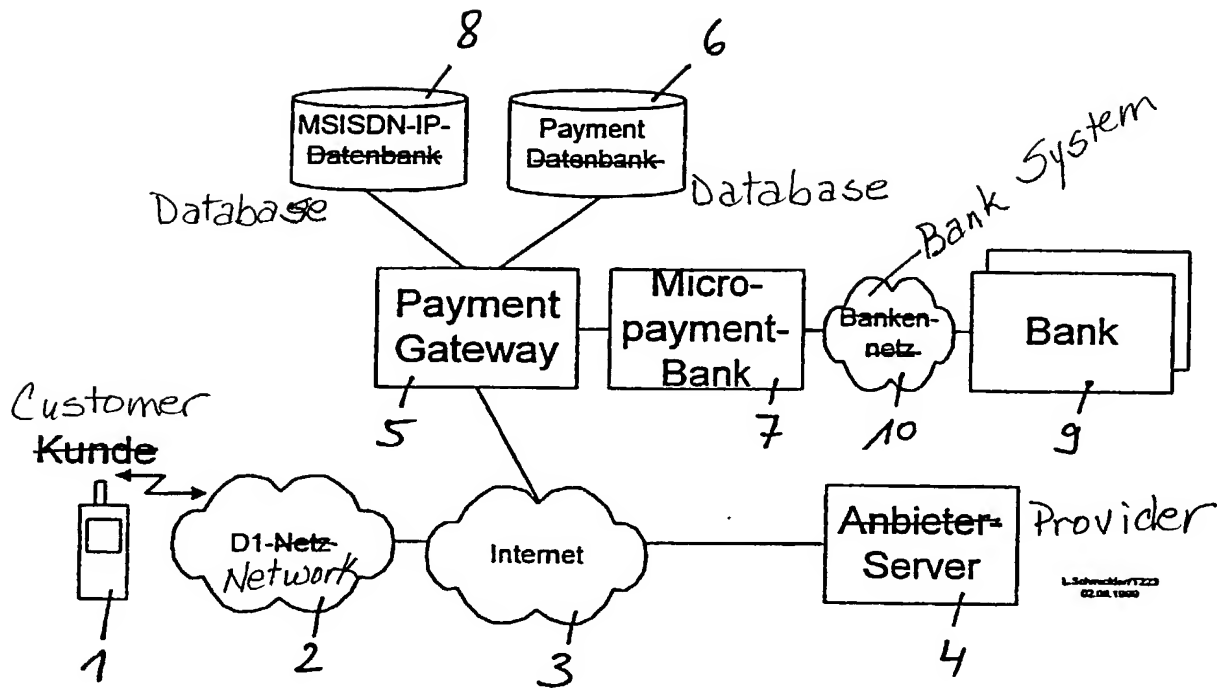


FIG. 1

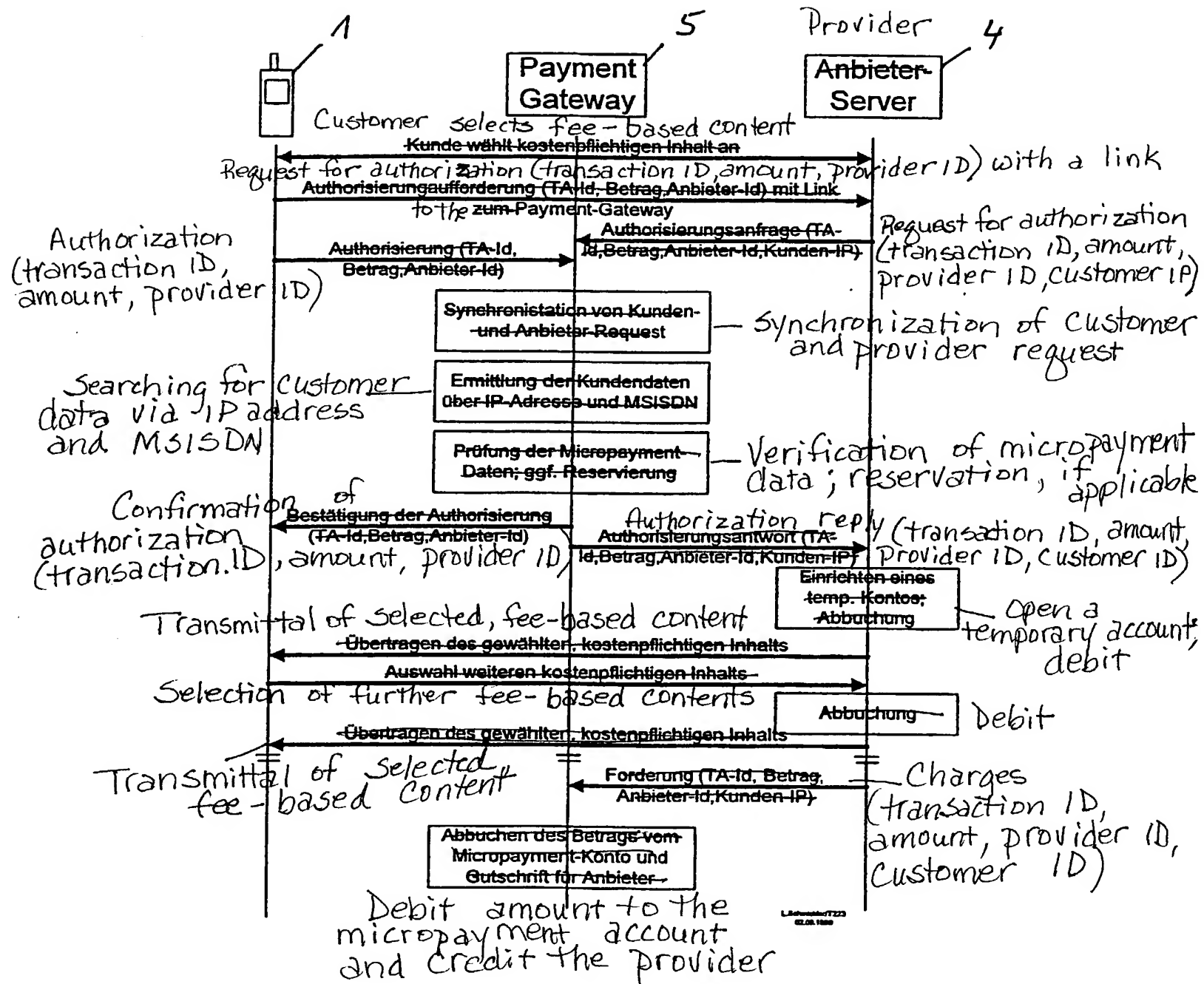


FIG. 2

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Declaration and Power of Attorney for Patent Application Erklärung für Patentanmeldungen mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

daß mein Wohnsitz, meine Postanschrift und meine Staatsangehörigkeit den im nachstehenden nach meinem Namen aufgeführten Angaben entsprechen, daß ich nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent für die Erfindung mit folgendem Titel beantragt wird:

deren Beschreibung hier beigelegt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung

- ☐ wurde angemeldet am _____ unter der US-Anmeldenummer oder unter der Internationalen Anmeldenummer im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) _____ und am _____ abgeändert (falls zutreffend).

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD FOR CHARGING INTERNET SERVICES VIA A MOBILE TELEPHONE

the specification of which is attached hereto unless the following box is checked:

- ☒ was filed on September 28, 2000 as United States Application Number or PCT International Application Number PCT/DE00/03421 and was amended on _____ (if applicable).

Ich bestätige hiermit, daß ich den Inhalt der oben angegebenen Patentanmeldung, einschließlich der Ansprüche, die eventuell durch einen oben erwähnten Zusatzantrag abgeändert wurde, durchgesehen und verstanden habe.

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

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German Language Declaration

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäß Title 35, US-Code, § 119 (a)-(d), bzw. § 365(b) aller unten aufgeführten Auslandsanmeldungen für Patente oder Erfinderurkunden, oder §365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslandsanmeldungen für Patente bzw. Erfinderurkunden oder PCT internationale Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

Prior Foreign Applications
(Frühere ausländische Anmeldungen)

199 46 537.1 Germany
(Number) (Country)
(Nummer) (Land)

(Number) (Country)
(Nummer) (Land)

Ich beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, § 119(e) aller US-Hilfsanmeldungen wie unten aufgezählt.

(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

Ich beanspruche hiermit die mir unter Title 35, US-Code, § 120 zustehenden Vorteile aller unten aufgeführten US-Patentanmeldungen bzw. § 365(c) aller PCT internationalen Anmeldungen, welche die Vereinigten Staaten von Amerika benennen, und erkenne, insofern der Gegenstand eines jeden früheren Anspruchs dieser Patentanmeldung nicht in einer US-Patentanmeldung, bzw. PCT internationalen Anmeldung in in einer gemäß dem ersten Absatz von Title 35, US-Code, § 112 vorgeschriebenen Art und Weise offenbart wurde, meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Title 37, Code of Federal Regulations, § 1.56 von Belang sind und die im Zeitraum zwischen dem Anmeldetag der früheren Patentanmeldung und dem nationalen oder im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) gültigen internationalen Anmeldetags bekannt geworden sind.

DE00/03421 28 Sept. 2000
(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

(Application No.) (Filing Date)
(Aktenzeichen) (Anmeldetag)

Ich erkläre hiermit, daß alle in der vorliegenden Erklärung von mir gemachten Angaben nach bestem Wissen und Gewissen der Wahrheit entsprechen, und ferner daß ich diese eidesstattliche Erklärung in Kenntnis dessen ablege, daß wissentlich und vorsätzlich falsche Angaben oder dergleichen gemäß § 1001, Title 18 des US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können und daß derartige wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines aufgrund deren erteilten Patentes gefährden können.

I hereby claim foreign priority under Title 35, United States Code, §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed
Priorität nicht beansprucht

28 September 1999
(Day/Month/Year Filed)
(Tag/Monat/Jahr der Anmeldung)

☐

(Day/Month/Year Filed)
(Tag/Monat/Jahr der Anmeldung)

☐

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Published
(Status) (patented, pending, abandoned)
(Status) (patentiert, schwebend, aufgegeben)

(Status) (patented, pending, abandoned)
(Status) (patentiert, schwebend, aufgegeben)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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German Language Declaration

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

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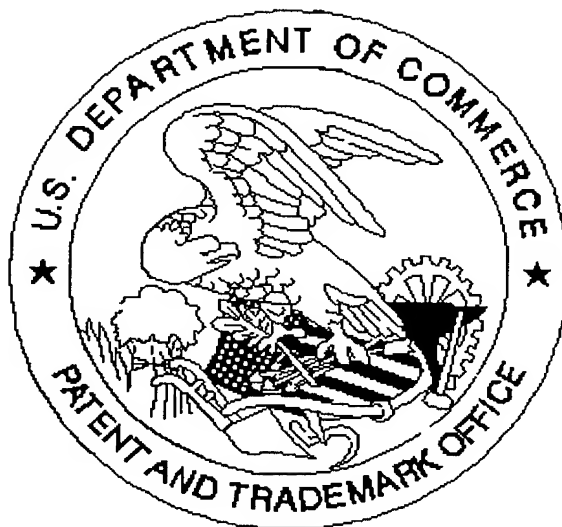
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